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LIP TYPE SEAL

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#### ABSTRACT

PROBLEM TO BE SOLVED: To hold the lubrication of a **seal lip** part 124 of an elastomer **lip** member 12 in **shaft** rotation to suppress the generation of scraping wear and keep sealing performance at the stop of a **shaft** .

SOLUTION: This **lip** type **seal** has the elastomer **lip** member 12 whose back is supported with a pressure backup ring 13, and a synthetic resin **lip** member 14 arranged on the back side, and a spiral groove 125 for producing a pumping action in the direction of fluid introduction from a machine inside space S1 side in the **shaft** rotation is formed on the inner circumferential surface of the **seal lip** part 124 of the elastomer **lip** member 12. By setting the contact width of the **seal lip** part 124 of the elastomer **lip** member 12 and a **shaft** 2 in 0.6 mm or more when the pressure in the machine inside space S1 is 1 Mpa (gage), **bearing** pressure maximum part of the **seal lip** part 124 of the elastomer **lip** member 12 against the **shaft** 2 is unevenly distributed on the back side, and fluid introduction with the spiral groove 125 is made smooth.

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